



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Group Art Unit: 3713**

**In re PATENT APPLICATION of**

**Applicant : NABIL N. GHALY**

**Serial No. : 08/962,971**

**Filed : October 27, 1997**

**For : ELECTRONIC HAND HELD  
LOGIC GAME  
REISSUE APPLICATION OF  
U.S. PATENT NO. 5,286,037  
ISSUED FEBRUARY 15, 1994**

**Examiner : JULIE K. BROKETTI**

February 27, 2006

**SUPPLEMENTAL REISSUE DECLARATION**

NABIL N. GHALY declares as follows:

1. I, Nabil N. Ghaly, a citizen of the United States of America, residing at 14 Longwood Drive, South Huntington, NY 11746, hereby declare that I have reviewed and understand the contents of my continuation application, including the specification and claims seeking reissue of U. S. Patent No. 5,286,037 (hereinafter "the '037 Patent").

2. I acknowledge the duty to disclose information that is material to the patentability of this reissue application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a). I believe that I am an original, first and sole inventor of the subject matter which is claimed in the

continuation application, and for which a reissue patent is sought on the invention entitled "ELECTRONIC HAND HELD LOGIC GAME".

3. I submit this Supplemental Reissue Declaration at the request of the Examiner, and to be in full compliance with the requirements of 37 CFR 1.175 and MPEP § 1414.

4. I verily believe that the original patent is partly inoperative by reason of my claiming less than I had a right to claim in the patent, and in particular, by including, in one or more independent claims of the '037 patent, through my actions without the assistance of patent counsel, unduly restrictive limitations that are not essential nor necessary parts of my invention, and by relying entirely on independent claims that were written mostly in means-plus-function format. I also declare that all errors being corrected in the reissue application, up to the date of filing of this supplemental reissue declaration, arose without any deceptive intention on my part.

5. I would, also, like to clarify in this declaration the circumstances that led to my use, in the '037 patent, of the term "Inclusive OR" to describe what is known in the art as the "Exclusive NOR" Boolean function.

6. During the time when I attended college at Cairo University (1961 to 1966), the term "Inclusive OR" was associated with the truth table for the "⊕" Boolean operator (a.k.a. "Exclusive NOR" or "Coincidence). Accordingly, in the '037 Patent, I used the term "Inclusive OR" to refer to the truth table of the "Exclusive NOR." I also used the symbol "⊕" to refer to the Boolean logic governing certain relationships between operating codes and color codes disclosed in the '037 Patent.

7. It should be noted that many Boolean algebra text books use the same symbol “ $\odot$ ” to refer to the truth tables implied from Figures 23 and 24 of the ‘037 patent. In more recent times, and in the academic circles of the United States, the term “Inclusive OR” has been used as a secondary term to refer to the “OR” Boolean operator, which has a different truth table from that implied by the top tables of Figures 23 and 24. The truth table for the “OR” Boolean operator is shown below:

“OR” BOOLEAN OPERATOR.

$$0 \text{ OR } 0 = 0$$

$$0 \text{ OR } 1 = 1$$

$$1 \text{ OR } 0 = 1$$

$$1 \text{ OR } 1 = 1$$

8. Even though, in recent times, the term “Inclusive OR” has been used as a secondary term to refer to the “OR” Boolean operator, I was unaware of the difference in terminology until recently.

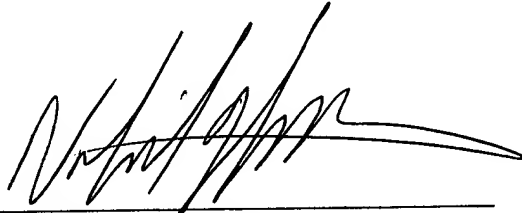
9. Also, although I named the “ $\odot$ ” Boolean operator as “Inclusive OR,” it was my belief, conviction and intent to describe what is commonly known as the “Exclusive NOR” Boolean operator. In fact, I provided consistent definition of the term “Inclusive OR” by four (4) different references in the ‘037 patent using the mathematical relationships of Figures 23 & 24, as well as through the use of the “ $\odot$ ” symbol in Figures 18 & 20 of the patent. This symbol is known to represent the same mathematical relationship disclosed in Figures 23 and 24.

10. While I understand that the patent law permits a patentee to be his or her own lexicographer, I am desirous of eliminating any potential for misinterpretation of the description in the ‘037 specification.

11. In the interest of being concise, and in order to avoid duplication, the applicant incorporates herein by reference paragraphs 4 through 100 of my Supplemental Reissue Declaration, dated May 24, 2005.

I hereby declare that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful, false statements and the like so made are punishable by fine, or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of this application or any patent issuing therefrom.

Executed on February 27, 2006



---

Dr. NABIL N. GHALY  
Citizen of USA  
*Postal and Street Address*  
14 Longwood Drive  
South Huntington, NY 11746  
(631) 549-0980